

		ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
FORM PTO-1449 <b>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>		APR 20 2001 U.S. PATENT & TRADEMARK OFFICE	APPLICANT Hartley et al.
		FILING DATE March 2, 2000	GROUP 1655

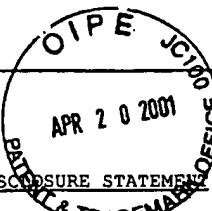
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME ..	CLASS	SUB-CLASS	FILING DATE
	AA						
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DAD	AE4	5,286,632	02/15/1994	Jones	435	91.2	01/09/1991
DAD	AF4	5,650,308	07/22/1997	Baum	435	172.3	06/07/1995
DAD	AG4	6,143,557	11/07/2000	Hartley et al.	435	320.1	01/20/1999
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
DAD	AO4	WO 94/09127	04/28/1994	PCT			Yes No
DAD	AP4	WO 98/53056	11/26/1998	PCT			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR						
DAD	AS	67	Albert, H., et al., "Site-specific integration of DNA into wild-type and mutant lox sites placed in the plant genome," Plant J. 7:649-659 Oxford Bios Scientific Publishers And Blackwell Scientific Publications In Association With The Society For Experimental Biology (1995).				
DAD	AT	67	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," BioTechniques 21:320-323, Eaton Publishing Company (1996).				

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		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655



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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
DWD	ALS WO 99/21977	05/06/1999	PCT			Yes No
	AMS WO 99/25851	05/27/1999	PCT			X Yes No
	AN5 WO 99/55851	11/04/1999	PCT			Yes No
	A05 WO 01/05961 A1	01/25/2001	PCT			Yes No
DWD	AP5 WO 01/11058 A1	02/15/2001	PCT			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DWD	AR	68	Dale, E.C., and Ow, D.W., "Mutations in the Cre/lox recombination site enhance the stability of recombination products: Applications for gene targeting in plants," <i>J. Cell. Biochem. 16(Suppl. F):206</i> , Abstract No. Y 108, Wiley-Liss, Inc. (1992).
DWD	AS	68	Davies, J., and Riechmann, L., "An antibody VH domain with a lox-Cre site integrated into its coding region: bacterial recombination within a single polypeptide chain," <i>FEBS Lett. 377:92-96</i> , Federation of European Biochemical Societies (1995).
DWD	AT	68	Hall, R.M., and Collis, C.M., "Mobile gene cassettes and integrons: capture and spread of genes by site-specific recombination," <i>Mol. Microbiol. 15:593-600</i> , Blackwell Scientific Publications (1995).

EXAMINER Diana Pd DATE CONSIDERED 1/23/04

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AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

DDB	AR	69	Krafte, D.S., et al., "Stable Expression and Functional Characterization of a Human Cardiac Na' Channel Gene in Mammalian Cells," J. Mol. Cell Cardiol. 27:823-830, Academic Press Limited (1995).
DDB	AS	69	Lee, G., and Saito, I., "Role of nucleotide sequences of loxP spacer region in Cre-mediated recombination," Gene 216:55-65, Elsevier Science B.V. (August 1998).
DDB	AT	69	Venkatesh, T.V., and Redding, C.M., "Ribosomal Protein S1 and NusA Protein Complexed to Recombination Protein $\beta$ of Phage $\lambda$ ," J. Bacteriol. 175:1844-1846, American Society for Microbiology (1993).

EXAMINER *Diana R*DATE CONSIDERED *1/23/04*

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		FILING DATE March 2, 2000	GROUP 1655

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DW	AR	70	Zahra, D.G., et al., "Selective in-vivo recombination to increase antibody library size - an improved phage display vector system," Gene 227:49-54, Elsevier Science Publishers B.V. (February 1999).
DW	AS	70	Dialog File 351 (Derwent World Patents Index), unverified English language abstract for WIPO/PCT Publication No. WO 98/53056 (Document No. AP4); WPI Accession No. 1999-000502/199901.
DW	AT	70	Dialog File 351 (Derwent World Patents Index), unverified English language abstract for WIPO/PCT Publication No. WO 99/25851 (Document No. AMS); WPI Accession No. 1999-347485/199929.

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Page 1 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
	APPLICANT Hartley et al.	
	FILING DATE March 2, 2000	GROUP 1634

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
DMD	AL6	EP 0 220 009	04/29/1987	Europe			Yes No
	AM6	WO 90/11375	10/04/1990	WIPO			Yes No
	AN6	EP 0 427 074	05/15/1991	Europe			Yes No
	AO6	WO 91/09957	07/11/1991	WIPO			Yes No
DMD	AP6	WO 92/15694	09/17/1992	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DMD	AR	71	Akagi, K., et al., "Cre-mediated somatic site-specific recombination in mice," Nucl. Acids Res. 25:1781-1788, Oxford University Press (1997).
DMD	AS	71	Aladjem, M.I., et al., "Positive Selection of FLP-Mediated Unequal Sister Chromatid Exchange Products in Mammalian Cells," Mol. Cell. Biol. 17:857-861, American Society for Microbiology (1997).
DMD	AT	71	Angelastro, J.M., et al., "Identification of diverse nerve growth factor-regulated genes by serial analysis of gene expression (SAGE) profiling," Proc. Natl. Acad. Sci. USA 97:10424-10429, National Academy of Sciences (September 2000).

EXAMINER	Diana R	DATE CONSIDERED	1/23/04
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Page 2 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
	APPLICANT Hartley et al.	
	FILING DATE March 2, 2000	GROUP 1634

U.S. PATENT DOCUMENTS

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DM	AL7 WO 92/22650	12/23/1992	WIPO			Yes No
	AM7 EP 0 542 466	05/19/1993	Europe			Yes No
	AN7 WO 94/03624	02/17/1994	WIPO			Yes No
	AO7 WO 94/18333	08/18/1994	WIPO			Yes No
DM	AP7 WO 96/04393	02/15/1996	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DM	AR	72	Angrand, P.O., et al., "Inducible expression based on regulated recombination: a single vector strategy for stable expression in cultured cells," <i>Nucl. Acids Res.</i> 26:3263-3269, Oxford University Press (July 1998).
DM	AS	72	Ayres, E.K., et al., "Precise Deletions in Large Bacterial Genomes by Vector-mediated Excision (VEX). The <i>trfA</i> Gene of Promiscuous Plasmid RK2 is Essential for Replication in Several Gram-negative Hosts," <i>J. Mol. Biol.</i> 230:174-185, Academic Press (1993).
DM	AT	72	Backman, K., et al., "Use of Synchronous Site-Specific Recombination In Vivo to Regulate Gene Expression," <i>Bio/Technology</i> 2:1045-1049, Nature Publishing Company (1984).

EXAMINER	Diana B	DATE CONSIDERED	1/23/04
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Page 3 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942-4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
	APPLICANT Hartley et al.	
	FILING DATE March 2, 2000	GROUP 1634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
DRB	AL8 WO 96/30498	10/03/1996	WIPO			Yes No
	AM8 WO 96/40724	12/19/1996	WIPO			Yes No
	AN8 WO 00/60091	10/12/2000	WIPO			Yes No
	AO8 WO 01/07572	02/01/2001	WIPO			Yes No
DRB	AP8 WO 01/62892	08/30/2001	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MJ	AR	73	Bai, C., et al., "SKP1 Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif, the F-Box," <i>Cell</i> 86:263-274, Cell Press (1996).
MJ	AS	73	Bernard, P., et al., "The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," <i>J. Mol. Biol.</i> 234:534-541, Academic Press (1993).
DRB	AT	73	Boshart, M., et al., "A Very Strong Enhancer is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," <i>Cell</i> 41:521-530, The MIT Press (1985).

EXAMINER Diana B DATE CONSIDERED 1/23/04

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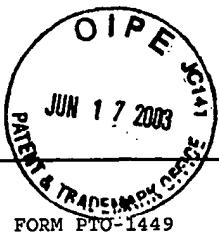
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DMD	AL9	WO 02/05294	01/17/2002	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MJ	AR	74	Bouhassira, E.E., et al., "Transcriptional Behavior of LCR Enhancer Elements Integrated at the Same Chromosomal Locus by Recombinase-Mediated Cassette Exchange," Blood 90:3332-3344, The American Society of Hematology (1997).
MJ	AS	74	Burioni, R., et al., "An improved phage display vector for antibody repertoire cloning by construction of combinatorial libraries," Res. Virol. 148:161-164, Elsevier (1997).
DMD	AT	74	Capone, J.P., et al., "Introduction of UAG, UAA, and UGA Nonsense Mutations at a Specific Site in the Escherichia coli Chloramphenicol Acetyltransferase Gene: Use in Measurement of Amber, Ochre, and Opal Suppression in Mammalian Cells," Mol. Cell. Biol. 6:3059-3067, American Society for Microbiology (1986).

EXAMINER	Diana P	DATE CONSIDERED	1/23/04
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Page 5 of 34

THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  FORM PTO-1449		ATTY. DOCKET NO. 0942-4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DJM	AR	75		Chanock, R.M., et al., "Human Monoclonal Antibody Fab Fragments Cloned from Combinatorial Libraries: Potential Usefulness in Prevention and/or Treatment of Major Human Viral Diseases," <i>Infect. Agents Dis.</i> 2:118-131, Raven Press (1993).			
DJM	AS	75		Chong, S., et al., "Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element," <i>Gene</i> 192:271-281, Elsevier Science B.V. (1997).			
DJM	AT	75		Choulika, A., et al., "Transfer of Single Gene-Containing Long Terminal Repeats into the Genome of Mammalian Cells by a Retroviral Vector Carrying the cre Gene and the loxP Site," <i>J. Virol.</i> 70:1792-1798, American Society for Microbiology (1996).			

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Page 6 of 34

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	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DW</i>	AR	<u>76</u>	Chuang, C.-F., et al., "Specific and heritable genetic interference by double-stranded RNA in <i>Arabidopsis thaliana</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 97:4985-4990, National Academy of Sciences (April 2000).
<i>M</i>	AS	<u>76</u>	Cigan, A.M., et al., "Mutational Analysis of the HIS4 Translational Initiator Region in <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 8:2964-2975, American Society for Microbiology (1988).
<i>DW</i>	AT	<u>76</u>	CLONTECH, "Creator™ Gene Cloning & Expression System," <i>CLONTECHniques</i> 15:7-11, CLONTECH, (April 2000).

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Page 7 of 34

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>MJ</i>	AR	<u>77</u>	CLONTECH, "New Additions to the Creator™ Platform," CLONTECHniques 16:4 pages, CLONTECH, (January 2001).				
<i>MJ</i>	AS	<u>77</u>	CLONTECH, "New Creator™ -Compatible Expression Systems," CLONTECHniques 15:2 pages, CLONTECH, (October 2000).				
<i>MJ</i>	AT	<u>77</u>	CLONTECH, "Creator™ Acceptor Vector Construction Kit" CLONTECHniques 16:2 pages, CLONTECH, (October 2001).				

EXAMINER	<i>Diane Po</i>	DATE CONSIDERED	<u>1/23/04</u>
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Page 8 of 34

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AP							Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MJD	AR	78	CLONTECH, "Creator™ SMART™ Library Construction Kit," CLONTECHniques 16:2 pages, CLONTECH, (October 2001).
MJD	AS	78	CLONTECH, "Creator™: The Universal Platform for Analysis of Gene Function," Powerpoint Presentation, 9 pages, CLONTECH, (July 24, 2001), available at <a href="http://www.clontech.com/products/families/creator/popups/s1page1.html">http://www.clontech.com/products/families/creator/popups/s1page1.html</a> .
MJD	AT	78	CLONTECH, "Creator™ pDNR-Dual Cloning Kit," CLONTECHniques 16:3 pages, CLONTECH, (October 2001).

EXAMINER Diana R DATE CONSIDERED 1/23/04

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Page 9 of 34

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>MJ</i>	AR	<u>79</u>	Curcio, M.J., and Garfinkel, D.J., "Single-step selection for Ty1 element retrotransposition," Proc. Natl. Acad. Sci. USA 88:936-940, National Academy of Sciences (1991).
<i>MJ</i>	AS	<u>79</u>	Datson, N.A., et al., "MicroSAGE: a modified procedure for serial analysis of gene expression in limited amounts of tissue," Nucl. Acids Res. 27:1300-1307, Oxford University Press (March 1999).
<i>MJ</i>	AT	<u>79</u>	Davis, C.R., et al., "Analysis of the Mechanisms of Action of the <i>Saccharomyces cerevisiae</i> Dominant Lethal cdc42 <sup>G12V</sup> and Dominant Negative cdc42 <sup>D118A</sup> Mutations," J. Biol. Chem. 273:849-858, The American Society for Biochemistry and Molecular Biology, Inc. (January 1998).

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Page 10 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM		APPLICATION NO. 09/517,466	
		APPLICANT Hartley et al.			
		FILING DATE March 2, 2000		GROUP 1634	

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AL							Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DMD	AR	80	Deng, M.-D., and Coleman, J.R., "Ethanol Synthesis by Genetic Engineering in Cyanobacteria," <i>Appl. Environ. Microbiol.</i> 65:523-528, American Society for Microbiology (February 1999).
DMD	AS	80	Derbyshire, V., and Belfort, M., "Lightning strikes twice: Inttron-intein coincidence," <i>Proc. Natl. Acad. Sci. USA</i> 95:1356-1357, National Academy of Sciences of the USA (February 1998).
DMD	AT	80	Dijkema, R., et al., "Cloning and expression of the chromosomal immune interferon gene of the rat," <i>EMBO J.</i> 4:761-767, IRL Press Limited (1985).

EXAMINER *Diana B.* DATE CONSIDERED *1/23/04*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Page 11 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1634

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<i>DW</i>	AR	<u>81</u>	Esposito, D., et al., "The integrase family of tyrosine recombinases: evolution of a conserved active site domain," <i>Nucl. Acids Res.</i> 25:3605-3614, Oxford University Press (1997).
<i>DW</i>	AS	<u>81</u>	Flanagan, P.M., and Fennwald, M.A., "Analysis of Inhibitors of the Site-specific Recombination Reaction Mediated by Tn3 Resolvase," <i>J. Mol. Biol.</i> 206:295-304, Academic Press (1989).
<i>DW</i>	AT	<u>81</u>	Flores, A., et al., "A protein-protein interaction map of yeast RNA polymerase III," <i>Proc. Natl. Acad. Sci. USA</i> 96:7815-7820, National Academy of Sciences (July 1999).

EXAMINER *Diana B* DATE CONSIDERED 1/23/04

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Page 12 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942-4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1634

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<i>Dm</i>	AR	<u>82</u>	Francia, M.V., et al., "The IntII Integron Integrase Preferentially Binds Single-Stranded DNA of the attC Site," <i>J. Bacteriol.</i> 181:6844-6849, American Society for Microbiology (November 1999).
<i>Dm</i>	AS	<u>82</u>	Gateway™ Cloning Technology, Version 1, GIBCO BRL, Life Technologies Instruction Manual, [retrievable from <http://www.lifetech.com/gateway>], pp. 1-60 (November 1999).
<i>Dm</i>	AT	<u>82</u>	Gay, P., et al., "Positive Selection Procedure for Entrapment of Insertion Sequence Elements in Gram-Negative Bacteria," <i>J. Bacteriol.</i> 164:918-921, American Society for Microbiology (1985).

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DMS	AR	83	Gay, P. et al., "Cloning Structural Gene <i>sacB</i> , Which Codes for Exoenzyme Levansucrase of <i>Bacillus subtilis</i> : Expression of the Gene in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 153:1424-1431, American Society for Microbiology (1983).
DMS	AS	83	Gorman, C.M., et al., "The Rous sarcoma virus long terminal repeat is a strong promoter when introduced into a variety of eukaryotic cells by DNA-mediated transfection," <i>Proc. Natl. Acad. Sci. USA</i> 79:6777-6781, National Academy of Sciences (1982).
DMS	AT	83	Grindly, N.D.F., and Kelley, W.S., "Effects of Different Alleles of the <i>E. coli</i> K12 <i>polA</i> Gene on the Replication of Non-transferring Plasmids," <i>Molec. Gen. Genet.</i> 143:311-318, Springer Verlag (1976).

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Page 14 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942 4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
	APPLICANT Hartley et al.	
	FILING DATE March 2, 2000	GROUP 1634

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<i>MJD</i>	AR	<u>84</u>	Gronostajski, R.M., and Sadowski, P.D., "The FLP Protein of the 2-micron Plasmid of Yeast. Inter- and Intramolecular Reactions," <i>J. Biol. Chem.</i> 260:12328-12335, The American Society of Biological Chemists, Inc. (1985).
<i>MJD</i>	AS	<u>84</u>	Haffter, P., and Bickle, T.A., "Enhancer-independent mutants of the Cin recombinase have a relaxed topological specificity," <i>EMBO J.</i> 7:3991-3996, IRL Press Limited (1988).
<i>MJD</i>	AT	<u>84</u>	Hancock, R.E.W., and Scott, M.G., "The role of antimicrobial peptides in animal defenses," <i>Proc. Natl. Acad. Sci. USA</i> 97:8856-8861, National Academy of Sciences (August 2000).

EXAMINER *Dicearbo* DATE CONSIDERED 1/23/04

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Page 15 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1634

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Dm</i>	AR	<u>85</u>	Hehl, R., et al., "Structural analysis of Tam3, a transposable element from <i>Antirrhinum majus</i> , reveals homologies to the Ac element from maize," <i>Plant Molec. Biol.</i> 16:369-371, Kluwer Academic Publishers (1991).
<i>DPD</i>	AS	<u>85</u>	Henikoff, S., "Unidirectional digestion with exonuclease III creates targeted breakpoints for DNA sequencing," <i>Gene</i> 28:351-359, Elsevier Science Publishers (1984).
<i>DH</i>	AT	<u>85</u>	Hochuli, E., et al., "Genetic Approach to Facilitate Purification of Recombinant Proteins with a Novel Metal Chelate Adsorbent," <i>Bio/Technology</i> 6: 1321-1325, Nature Publishing Company (1988).

EXAMINER *Diana B.* DATE CONSIDERED 11/23 (a)

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		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1634

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AL						Yes No
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<i>MJ</i>	AR	<u>86</u>	Hoess, R.H., and Abremski, K., "Interaction of the Bacteriophage P1 Recombinase Cre with the Recombining Site loxP," Proc. Natl. Acad. Sci. USA 81:1026-1029, National Academy of Sciences (1984).
<i>DHD</i>	AS	<u>86</u>	Iida, S., et al., "A site-specific, conservative recombination system carried by bacteriophage P1. Mapping of the recombinase gene cin and the crossover sites cix for the inversion of the C segment," EMBO J. 1:1445-1453, IRL Press Limited (1982).
<i>DHD</i>	AT	<u>86</u>	Kaniga, K., et al., "A wide-host-range suicide vector for improving reverse genetics in Gram-negative bacteria: inactivation of the blaA Gene of Yersinia enterocolitica," Gene 109:137-141, Elsevier Science B.V. (1991).

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Page 17 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
	APPLICANT Hartley et al.	
	FILING DATE March 2, 2000	GROUP 1634

U.S. PATENT DOCUMENTS

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AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DWJ</i>	AR	<u>87</u>	Kealey, J.T., et al., "Production of polyketide natural product in nonpolyketide-producing prokaryotic and eukaryotic hosts," Proc. Natl. Acad. Sci. USA 95:505-509, National Academy of Sciences (January 1998).
<i>DWJ</i>	AS	<u>87</u>	Kholodenko, B.N., et al., "Metabolic Design: How to Engineer a Living Cell to Desired Metabolite Concentrations and Fluxes," Biotechnol. Bioengineer. 59:239-247, John Wiley & Sons, Inc. (1998).
<i>DWJ</i>	AT	<u>87</u>	Kim, D.W., et al., "Use of the human elongation factor 1 $\alpha$ promoter as a versatile and efficient expression system," Gene 91:217-223, Elsevier Science B. V. (1990).

EXAMINER *Dwight J. Yost* DATE CONSIDERED 1/23/04

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FORM PTO-1449 <b>THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1634

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	AP						Yes
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>MD</i>	AR	<u>88</u>	Kolb, A.F., and Siddell, S.G., "Genomic targeting with an MBP-Cre fusion protein," Gene 183:53-60, Elsevier Science B.V. (1996).
<i>MD</i>	AS	<u>88</u>	Kouprina, N., et al., "Rescue of Targeted Regions of Mammalian Chromosomes by in Vivo Recombination in Yeast," Genome Res. 8:666-672, Cold Spring Harbor Laboratory Press (June 1998).
<i>MD</i>	AT	<u>88</u>	Krautwald, S., and Baccarini, M., "Bacterially Expressed Murine CSF-1 Possesses Agonistic Activity in its Monomeric Form," Biochem. Biophys. Res. Commun. 192: 720-727, Academic Press, Inc. (1993).

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Page 19 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1634

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Dm</i>	AR	89	Leslie, N.R., and Sherratt, D.J., "Site-specific recombination in the replication terminus region of <i>Escherichia coli</i> : functional replacement of <i>dif</i> ," <i>EMBO J.</i> 14:1561-1570, Oxford University Press (1995).				
<i>Dm</i>	AS	89	Leung, L.L.K., "Application of Combinatorial Libraries and Protein Engineering to the Discovery of Novel Anti-Thrombotic Drugs," <i>Thromb. Haemost.</i> 74:373-376, F.K. Schattauer Verlagsgesellschaft mbH (1995).				
<i>Dm</i>	AT	89	Li, Z.-W., et al., "Generation of mice with a 200-kb amyloid precursor protein gene deletion by Cre recombinase-mediated site-specific recombination in embryonic stem cells," <i>Proc. Natl. Acad. Sci. USA</i> 93:6158-6162, National Academy of Sciences (1996).				

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Page 20 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942-4680003/RWE/BJD/JKM		APPLICATION NO. 09/517,466	
		APPLICANT Hartley et al.			
		FILING DATE March 2, 2000	GROUP 1634		

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DMD	AR	90	Lu, F., and Churchward, G., "Conjugative transposition: Tn916 integrase contains two independent DNA binding domains that recognize different DNA sequences," <i>EMBO J.</i> 13:1541-1548, Oxford University Press (1994).
DPM	AS	90	Madison, L.L., and Huisman, G.W., "Metabolic Engineering of Poly(3-Hydroxyalkanoates): From DNA to Plastic," <i>Microbiol. Mol. Biol. Reviews</i> 63:21-53, American Society for Microbiology (March 1999).
DPM	AT	90	Maemura, K., et al., "Generation of a Dominant-negative Mutant of Endothelial PAS Domain Protein 1 by Deletion of a Potent C-terminal Transactivation Domain," <i>J. Biol. Chem.</i> 274:31565-31570, The American Society for Biochemistry and Molecular Biology, Inc. (October 1999).

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		FILING DATE March 2, 2000	GROUP 1634

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DJD	AR	91	Mahillon, J., et al., "Subdivision of the <i>Escherichia coli</i> K-12 genome for sequencing: manipulation and DNA sequence of transposable elements introducing unique restriction sites," <i>Gene</i> 223:47-54, Elsevier Science B.V. (November 1998).
MDJ	AS	91	Malynn, B.A., et al., "The scid Defect Affects the Final Step of the Immunoglobulin VDJ Recombinase Mechanism," <i>Cell</i> 54:453-460, Cell Press (1988).
DJD	AT	91	Maniatis, T., et al., "Regulation of Inducible and Tissue-Specific Gene Expression," <i>Science</i> 236:1237-1245, American Association for the Advancement of Science (1987).

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DMD	AR	92	Mendiola, M.V., and de la Cruz, F., "Specificity of insertion of IS91, an insertion sequence present in $\alpha$ -haemolysis plasmids of <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 3:979-984, Blackwell Scientific Publications (1989).
DMD	AS	92	Mercier, J., et al., "Structural and Functional Characterization of <i>tnpI</i> , a Recombinase Locus in <i>Tn21</i> and Related $\beta$ -Lactamase Transposons," <i>J. Bacteriol.</i> 172:3745-3757, American Society for Microbiology (1990).
DMD	AT	92	Metcalf, W.W., et al., "Conditionally Replicative and Conjugative Plasmids Carrying <i>lacZ<math>\alpha</math></i> for Cloning, Mutagenesis, and Allele Replacement in Bacteria," <i>Plasmid</i> 35:1-13, Academic Press (1996).

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		FILING DATE March 2, 2000	GROUP 1634	

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	AP						Yes No

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<i>MJ</i>	AR	<u>93</u>	Mette, M.F., et al., "Transcriptional silencing and promoter methylation triggered by double-stranded RNA," <i>EMBO J.</i> 19:5194-5201, Oxford University Press (October 2000).
<i>MJ</i>	AS	<u>93</u>	Meyer-Leon, L., et al., "Purification of the FLP site-specific recombinase by affinity chromatography and re-examination of basic properties of the system," <i>Nucl. Acids Res.</i> 15:6469-6488, IRL Press Limited (1987).
<i>MJ</i>	AT	<u>93</u>	Mizushima, S., and Nagata, S., "pEF-BOS, a powerful mammalian expression vector," <i>Nucl. Acids Res.</i> 18:5322, Oxford University Press (1990).

EXAMINER *Diana B.* DATE CONSIDERED *1/23/04*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Page 24 of 34

FORM PTO-1449 <b>THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM		APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.		
		FILING DATE March 2, 2000	GROUP 1634	

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AL							Yes No
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AO							Yes No
AP							Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>DWJ</i>	AR	<u>94</u>	Nagy, A., "Cre Recombinase: The Universal Reagent for Genome Tailoring," <i>Genesis</i> 26:99-109, Wiley-Liss, Inc. (February 2000).
<i>DWJ</i>	AS	<u>94</u>	Odell, J.T., et al., "Seed-Specific Gene Activation Mediated by the Cre/lox Site-Specific Recombination System," <i>Plant Physiol.</i> 106:447-458, American Society of Plant Physiologists (1994).
<i>DWJ</i>	AT	<u>94</u>	O'Gara, J.P., et al., "Identification and Molecular Genetic Analysis of Multiple Loci Contributing to High-Level Tellurite Resistance in <i>Rhodobacter sphaeroides</i> 2.4.1," <i>Appl. Environ. Microbiol.</i> 63:4713-4720, American Society for Microbiology (1997).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DJW	AR	95	Pal, S.K., et al., "P1 Plasmid Replication. Role of Initiator Titration in Copy Number Control," <i>J. Mol. Biol.</i> 192:275-285, Academic Press (1986).				
DJW	AS	95	Panke, S., et al., "Engineering of Quasi-Natural <i>Pseudomonas putida</i> Strains for Toluene Metabolism through an ortho-Cleavage Degradation Pathway," <i>Appl. Environ. Microbiol.</i> 64:748-751, American Society for Microbiology (February 1998).				
DJW	AT	95	Patel, P.H., and Loeb, L.A., "DNA polymerase active site is highly mutable: Evolutionary consequences," <i>Proc. Natl. Acad. Sci. USA</i> 97:5095-5100, National Academy of Sciences (May 2000).				

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Page 26 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1634

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<i>Diana B.</i>	AR	<u>96</u>	Perler, F.B., "InBase, the New England Biolabs Intein Database," Nucl. Acids Res. 27:346-347, Oxford University Press (January 1999).
<i>Diana B.</i>	AS	<u>96</u>	Persson, M.A.A., "Combinatorial Libraries," Intern. Rev. Immunol. 10:153-163, Harwood Academic Publishers GmbH (1993).
<i>Diana B.</i>	AT	<u>96</u>	Phillips-Jones, M.K., et al., "Context Effects on Misreading and Suppression at UAG Codons in Human Cells," Mol. Cell. Biol. 15:6593-6600, American Society for Microbiology (1995).

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Page 27 of 34

FORM PTO-1449  THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	FILING DATE March 2, 2000
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AL							Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DJB	AR	97		Powell, J., "Enhanced concatemer cloning-a modification to the SAGE (Serial Analysis of Gene Expression) technique," <i>Nucl. Acids Res.</i> 26:3445-3446, Oxford University Press (July 1998).			
DJB	AS	97		Prieto, M.A., et al., "Molecular Characterization of the 4-Hydroxyphenylacetate Catabolic Pathway of <i>Escherichia coli</i> W: Engineering a Mobile Aromatic Degradative Cluster," <i>J. Bacteriol.</i> 178:111-120, American Society for Microbiology (1996).			
DJB	AT	97		Qin, M., et al., "Cre recombinase-mediated site-specific recombination between plant chromosomes," <i>Proc. Natl. Acad. Sci. USA</i> 91:1706-1710, National Academy of Sciences (1994).			

EXAMINER	Diana B.	DATE CONSIDERED	1/23/04
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Page 28 of 34

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	APPLICANT Hartley et al.	
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AM						Yes No
AN						Yes No
AO						Yes No
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DJB	AR	98	Qin, M., et al., "Site-specific cleavage of chromosomes in vitro through Cre-lox recombination," Nucl. Acids Res. 23:1923-1927, Oxford University Press (1995).
DJB	AS	98	Ross, W., and Landy, A., "Patterns of λ Int Recognition in the Regions of Strand Exchange," Cell 33:261-272, The MIT Press (1983).
DJB	AT	98	Sandhu, J.S., "Protein Engineering of Antibodies," Crit. Rev. Biotechnol. 12:437-462, CRC Press (1992).

EXAMINER D. Lee B. DATE CONSIDERED 1/23/04

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Page 29 of 34

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	APPLICANT Hartley et al.	
	FILING DATE March 2, 2000	GROUP 1634

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AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DWY</i>	AR	<u>99</u>	Sato, T., et al., "The <i>cisA</i> Cistron of <i>Bacillus subtilis</i> Sporulation Gene <i>spoIVC</i> Encodes a Protein Homologous to a Site-Specific Recombinase," <i>J. Bacteriol.</i> 172:1092-1098, American Society for Microbiology (1990).
<i>WYJ</i>	AS	<u>99</u>	Sauer, B., et al., "Construction of Isogenic Cell Lines Expressing Human and Rat Angiotensin II AT <sub>1</sub> Receptors by Cre-Mediated Site-Specific Recombination," <i>Methods: A Companion to Methods in Enzymology</i> 4:143-149, Academic Press (1992).
<i>DWY</i>	AT	<u>99</u>	Schild, D., et al., "Cloning of three human multifunction de novo purine biosynthetic genes by functional complementation of yeast mutations," <i>Proc. Natl. Acad. Sci. USA</i> 87:2916-2920, National Academy of Sciences (1990).

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Page 30 of 34

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AL							Yes No
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AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Diana B.</i>	AR	<u>100</u>	Schnepf, E., et al., "Bacillus thuringiensis and Its Pesticidal Crystal Proteins," <i>Microbiol. Mol. Biol. Rev.</i> 62:775-806, American Society for Microbiology (September 1998).
<i>Diana B.</i>	AS	<u>100</u>	Segall, A.M., et al., "Architectural elements in nucleoprotein complexes: interchangeability of specific and non-specific DNA binding proteins," <i>EMBO J.</i> 13:4536-4548, Oxford University Press (1994).
<i>Diana B.</i>	AT	<u>100</u>	Shim, J., et al., "Distinct and Redundant Functions of $\mu$ 1 Medium Chains of the AP-1 Clathrin-Associated Protein Complex in the Nematode <i>Caenorhabditis elegans</i> ," <i>Mol. Biol. Cell</i> 11:2743-2756, The American Society for Cell Biology (August 2000).

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Page 31 of 34

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>MJ</i>	AR	<u>101</u>		Skraly, F.A., et al., "Construction and Characterization of a 1,3-Propanediol Operon," <i>Appl. Environ. Microbiol.</i> 64:98-105, American Society for Microbiology (January 1998).			
<i>MJ</i>	AS	<u>101</u>		Spinella, D.G., et al., "Tandem arrayed ligation of expressed sequence tags (TALEST): a new method for generating global gene expression profiles," <i>Nucl. Acids Res.</i> 27(e22):i-viii, Oxford University Press (September 1999).			
<i>WMS</i>	AT	<u>101</u>		Stark, W.M., et al., "Site-Specific Recombination by Tn3 Resolvase: Topological Changes in the Forward and Reverse Reactions," <i>Cell</i> 58:779-790, Cell Press (1989).			

EXAMINER	<i>Dane R</i>	DATE CONSIDERED	<u>1/23/04</u>
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Page 32 of 34

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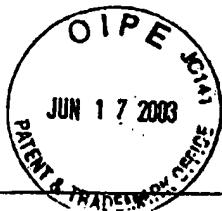
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AP							Yes No

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<i>DWJ</i>	AR	<u>102</u>	Stassi, D.L., et al., "Ethyl-substituted erythromycin derivatives produced by directed metabolic engineering," Proc. Natl. Acad. Sci. USA 95:7305-7309, National Academy of Sciences (June 1998).
<i>DWJ</i>	AS	<u>102</u>	Stellwagen, A.E., and Craig, N.L., "Mobile DNA elements: controlling transposition with ATP-dependent molecular switches," Trends Biochem. Sci. 23:486-490, Elsevier Science Publishers (December 1998).
<i>DWJ</i>	AT	<u>102</u>	Stenzel, T.T., et al., "The Integration Host Factor of Escherichia coli Binds to Bent DNA at the Origin of Replication of the Plasmid pSC101," Cell 49:709-717, Cell Press (1987).

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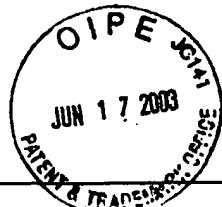
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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Dm</i>	AR	103	Sugiura, S., et al., "Minimal Essential Origin of Plasmid pSC101 Replication: Requirement of a Region Downstream of Iterons," <i>J. Bacteriol.</i> 175:5993-6001, American Society for Microbiology (1993).
<i>Dm</i>	AS	103	Uetsuki, T., et al., "Isolation and Characterization of the Human Chromosomal Gene for Polypeptide Chain Elongation Factor-1α," <i>J. Biol. Chem.</i> 264:5791-5798, The American Society for Biochemistry and Molecular Biology, Inc. (1989).
<i>Vd</i>	AT	103	van den Berg, A., et al., "Serial analysis of gene expression: rapid RT-PCR analysis of unknown SAGE tags," <i>Nucl. Acids Res.</i> 27(e17):i-iii, Oxford University Press (September 1999).

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DWY	AR	104	Voss, S.D., et al., "The role of enhancers in the regulation of cell-type-specific transcriptional control," Trends Biochem. Sci. 11:287-289, Elsevier Science (1986).
WZJ	AS	104	Voziyanov, Y., et al., "A general model for site-specific recombination by the integrase family recombinases," Nucl. Acids Res. 27:930-941, Oxford University Press (February 1999).
DWY	AT	104	Yoon, H., et al., "SSL1, a suppressor of a HIS4 5'-UTR stem-loop mutation, is essential for translation initiation and affects UV resistance in yeast," Genes Dev. 6:2463-2477, Cold Spring Harbor Laboratory Press (1992).

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## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Compositions and Methods for Use In Recombinational Cloning of Nucleic Acids									
Application Number:	09/517466									
Confirmation Number:	4289									
First Named Applicant:	James Hartley									
Attorney Docket Number:	0942.4680003									
Search string:	( 4683195 or 4683202 or 4965188 or 5093257 or 5102797 or 5159062 or 5286632 or 5334375 or 5334575 or 5378618 or 5527695 or 5605793 or 5650308 or 5650557 or 5728551 or 5801030 or 5814300 or 5837458 or 5929307 or 5962255 or 5981177 or 6080576 or 6143557 or 6225121 or 6262341 or 6270969 or 6271436 or 6277608 or 6361972 or 6365377 or 6410266 or 6410317 or 6436707 or 20020007051 or 20030027337 ).pn.									
<b>US Patent Documents</b>										
Note: Applicant is not required to submit a paper copy of cited US Patent Documents										
init	Cite.No.	Patent No.	Date	Patentee	Kind					
(1)	1	4683195	1987-07-28	Mullis et al.						
	2	4683202	1987-07-28	Mullis						
	3	4965188	1990-10-23	Mullis et al.						
	4	5093257	1992-03-03	Gray, G.L.						
	5	5102797	1992-04-07	Tucker et al.						
	6	5159062	1992-10-27	Knapp et al.						
	7	5286632	1994-02-15	Jones, D.H.						
	8	5334375	1994-08-02	Nabi et al.						
	9	5334575	1994-08-02	Noonan et al.						
	10	5378618	1995-01-03	Sternberg et al.						
	11	5527695	1996-06-18	Hodges et al.						
	12	5605793	1997-02-25	Stemmer, W.P.C.						
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page 1 of 2

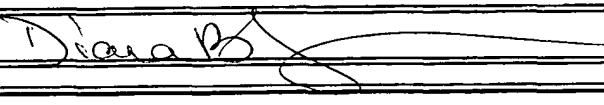
14	5650557	1997-07-22	Hannah et al.	
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16	5801030	1998-09-01	McVey et al.	
17	5814300	1998-09-29	Scott et al.	
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20	5962255	1999-10-05	Griffiths et al.	
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22	6080576	2000-06-27	Zambrowicz et al.	
23	6143557	2000-11-07	Hartley, J.L. et al.	
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25	6262341	2001-07-17	Baszcynski et al.	B1
26	6270969	2001-08-07	Hartley et al.	B1
27	6271436	2001-08-07	Piedrahita et al.	B1
28	6277608	2001-08-21	Hartley et al.	B1
29	6361972	2002-03-26	Harrington et al.	
30	6365377	2002-04-02	Patten et al.	B1
31	6410266	2002-06-25	Harrington et al.	
32	6410317	2002-06-25	Farmer, A.F.	B1
33	6436707	2002-08-20	Zambrowicz et al.	

## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
1	1	20020007051	2002-01-17	Cheo et al.			
2	2	20030027337	2003-02-06	Droge et al.			

Signature

Examiner Name	Date
	1/23/04

FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DMD	AA1	4,673,640	06/16/1987	Backman, K.C.	435	68	04/30/1984
	AB1	4,743,546	05/10/1998	Backman et al.	435	108	02/13/1985
	AC1	4,959,317	09/25/1990	Sauer B.L.	435	172.3	04/29/1987
	AD1	5,227,288	07/13/1993	Blattner, F.R.	435	6	10/01/1990
	AE1	5,354,668	10/11/1994	Auerbach, J.I.	435	91.1	10/15/1993
	AF1	5,434,066	07/18/1995	Bebbe, R.L., et al.	435	172.3	03/15/1994
	AG1	5,470,727	11/28/1995	Mascarenhas et al.	435	172.3	12/21/1993
	AH1	5,591,609	01/07/1997	Auerbach, J.I.	435	91.2	02/03/1995
	AI1	5,614,389	03/25/1997	Auerbach, J.I.	435	91.2	09/26/1995
	AJ1	5,635,381	06/03/1997	Hooykaas et al.	435	172.3	01/20/1995
DMD	AK1	5,658,772	08/19/1997	Odell et al.	435	172.3	07/27/1994

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
DMD	AL1	EP 0 160 571 A2	11/06/1985	Europe			Yes No
	AM1	EP 0 300 422	01/25/1989	Europe			Yes No
	AN1	WO 91/02801	03/07/1991	WIPO			Yes No
	AO1	WO 91/16427	10/31/1991	WIPO			Yes No
DMD	AP1	WO 92/20791	11/26/1992	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

DMD	AR	1	Abremski, K., and Gottesman, S., "Purification of the Bacteriophage $\lambda$ xis Gene Product Required for $\lambda$ Excisive Recombination," <i>J. Biol. Chem.</i> 257(16):9658-9662, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1982).
DMD	AS	1	Abremski, K., and Hoess, R., "Bacteriophage P1 Site-specific Recombination - Purification and Properties of the Cre Recombinase Protein." <i>J. Biol. Chem.</i> 259:1509-1514, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1984).
DMD	AT	1	Abremski, K., et al., "Bacteriophage P1 Cre-loxP Site-specific Recombination: Site-specific DNA Topoisomerase Activity of the Cre Recombination Protein," <i>J. Biol. Chem.</i> 261(1):391-396, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1986).

EXAMINER <i>Diana B</i>	DATE CONSIDERED <i>1/23/04</i>
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		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
(DMP)	AA2	5,677,170	10/14/1997	Devine et al.	435	20.1	03/02/1994
	AB2	5,677,177	10/14/1997	Wahl et al.	435	325	06/07/1995
	AC2	5,710,248	01/20/1998	Grose, C.F.	530	327	07/29/1996
	AD2	5,723,765	03/03/1998	Oliver et al.	800	208	06/07/1995
	AE2	5,733,733	03/31/1998	Auerbach, J.I.	435	6	02/01/1996
	AF2	5,733,743	03/31/1998	Johnson et al.	435	320.1	06/10/1996
	AG2	5,744,336	04/28/1998	Hodges et al.	435	172.3	03/08/1996
	AH2	5,766,891	06/16/1998	Shuman, S.	435	91.41	12/19/1994
	AI2	5,776,449	07/07/1998	Baum et al.	424	93.2	09/20/1996
	AJ2	5,830,707	11/03/1998	Bushman, F.D.	435	69.7	06/05/1995
(DMP)	AK2	5,837,242	11/17/1998	Holliger et al.	424	136.1	05/14/1996

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
(DMP)	AL2	WO 93/15191	08/05/1993	WIPO			Yes No
	AM2	WO 93/19172	09/30/1993	WIPO			Yes No
	AN2	CA 2,141,412	02/17/1994	Canada			Yes No
	AO2	WO 94/17176	08/04/1994	WIPO			Yes No
(DMP)	AP2	WO 95/00555	01/05/1995	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
(DMP)	AR	2	Abremski, K., et al., "Studies on the Properties of PI Site-Specific Recombination: Evidence for Topologically Unlinked Products Following Recombination," Cell 32:1301-1311, Cell Press, Cambridge, MA (1993).				
(DMP)	AS	2	Adams, D.E., et al., "Cre-lox Recombination in Escherichia coli Cells: Mechanistic Differences from the in Vitro Reaction," J. Mol. Biol. 226:661-673, Academic Press, Inc., New York, NY (1992).				
(DMP)	AT	2	Andrews, B.J., et al., "The FLP Recombinase of the 2μ Circle DNA of Yeast: Interaction with Its Target Sequences," Cell 40:795-803, Cell Press, Cambridge, MA (1985).				

EXAMINER <i>Diana R</i>	DATE CONSIDERED <i>1/23/04</i>
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FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DWJ	AA3	5,843,772	12/01/1998	Devine, S.E., et al.	435	69.1	11/18/1994
	AB3	5,851,808	12/22/1998	Elledge et al.	435	172.3	02/28/1997
	AC3	5,858,657	01/12/1999	Winter et al.	435	6	06/07/1995
	AD3	5,871,907	02/16/1999	Winter et al.	435	6	03/31/1994
	AE3	5,874,259	02/23/1999	Szybalski, W.	435	91.1	11/21/1997
	AF3	5,888,732	03/30/1999	Hartley et al.	435	6	06/07/1996
	AG3	5,916,804	06/29/1999	Bushman, F.D.	435	325	04/17/1998
	AH3	5,919,676	07/06/1999	Graham et al.	435	172.3	06/07/1995
	AI3	5,928,914	07/27/1999	Leboulch et al.	435	172.3	11/05/1996
DWJ	AJ3	5,989,872	11/22/1999	Luo et al.	435	91.2	08/12/1997
DWJ	AK3	6,010,884	01/04/2000	Griffiths et al.	435	69.7	05/29/1996

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
DWJ	AL3	WO 97/06265	02/20/1997	WIPO			Yes No
	AM3	WO 97/09436	03/13/1997	WIPO			Yes No
	AN3	WO 97/25446	07/17/1997	WIPO			Yes No
	AO3	WO 97/32481	09/12/1997	WIPO			Yes No
DWJ	AP3	WO 98/10086	03/12/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DWJ	AR	3	Andrews, B.J., et al., "Interaction of the FLP Recombinase of the <i>Saccharomyces cerevisiae</i> 2μm Plasmid with Mutated Target Sequences," <i>Mol. Cell. Biol.</i> 6:2482-2489, American Society for Microbiology, Washington, D.C. (1986).				
DWJ	AS	3	Anton, M., and Graham, F.L., "Site-Specific Recombination Mediated by an Adenovirus Vector Expressing the Cre Recombinase Protein: a Molecular Switch for Control of Gene Expression," <i>J. Virol.</i> 69:4600-4606, American Society for Microbiology, Washington, D.C. (1995).				
DWJ	AT	3	Araki, H., et al., "Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1," <i>J. Mol. Biol.</i> 225:25-37, Academic Press, Inc., New York, NY (1992).				

EXAMINER	Diana Poy	DATE CONSIDERED	1/23/04
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FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DMD	AA4	6,040,430	03/21/2000	Stewart	530	358	12/26/1995
	AB4	6,063,627	06/16/2000	McVey et al.	435	440	02/25/1998
	AC4	5,348,886	09/20/1994	Lee et al.	435	320.1	09/04/1992
DMD	AD4	6,171,861	01/09/2001	Hartley et al.	435	455	01/12/1998
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
DMD	AL4	WO 99/10488	03/04/1999	WIPO			Yes No
DMD	AM4	WO 00/12687	03/09/2000	WIPO			Yes No
DMD	AN4	EP 1 035 208	09/13/2000	Europe			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DMD	AR	4	Argos, P., et al., "The integrase family of site-specific recombinases: regional similarities and global diversity," <i>EMBO J.</i> 5(2):433-440, IRL Press Limited, Oxford, England (1986).				
DMD	AS	4	Astumian, et al., "Site-specific recombination between cloned attP and attB sites from the <i>Haemophilus influenzae</i> bacteriophage HP1 propagated in recombination deficient <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 171:1747-1750, American Society for Microbiology, Washington, D.C. (1989).				
DMD	AT	4	Atlung, T., et al., "A versatile method for integration of genes and gene fusions into the λ attachment site of <i>Escherichia coli</i> ," <i>Gene</i> 107:11-17, Elsevier/North-Holland, Netherlands (1991).				

EXAMINER <i>Diana P</i>	DATE CONSIDERED <i>1/23/09</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DM</i>	AR	5		Ausubel, F.M., et al., "Maps of Plasmids pBR322 and pUC19," in <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., Boston, MA, (1995), pages I.5.3 and I.5.4 <i>nm</i>			
<i>DM</i>	AS	5		Ausubel, F.M., et al., "Mutagenesis by the Polymerase Chain reaction," in: <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., Boston, MA, pp. 8.5.1-8.5.9 (1995).			
<i>DM</i>	AT	5		Babineau, D. et al., "The FLP Protein of the 2-micron Plasmid of Yeast," <i>J. Biol. Chem.</i> 260:12313-12391, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1985).			

EXAMINER *Diana Pg*DATE CONSIDERED *1/23/04*

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FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL							Yes No
AM							Yes No
AN							Yes No
AO							Yes No
AP							Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

DMD	AR	6	Balakrishnan, R., et al., "A gene cassette for adapting <i>Escherichia coli</i> strains as hosts for att-Int-mediated rearrangement and <i>p<sub>L</sub></i> expression vectors," <i>Gene</i> 138:101-104, Elsevier/North-Holland, Netherlands (January 1994).
VMD	AS	6	Bayley, C.C., et al., "Exchange of gene activity in transgenic plants catalyzed by the Cre-lox site specific recombination system," <i>Plant Mol. Biol.</i> 18:353-361, Dordrecht Kluwer Academic, Boston, MA (1992).
DMD	AT	6	Bethke, B., and Sauer, B., "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants," <i>Nucl. Acids Res.</i> 25:2828-2834, Oxford University Press, Oxford, England (1997).

EXAMINER

*Diana PB*

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL							Yes No
AM							Yes No
AN							Yes No
AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DW	AR	7	Bernard, P., and Couturier, M., "Cell Killing by the F plasmid CcdB Protein Involves Poisoning of DNA-topoisomerase II Complexes," <i>J. Mol. Biol.</i> 226:735-745, Academic Press, Inc., New York, NY (1992).				
DR	AS	7	Bernard, P., et al., "Positive Selection of vectors using the F plasmid ccdB killer gene," <i>Gene</i> 148:71-74, Elsevier Science Publishers B.V., Amsterdam, Netherlands (1994).				
DR	AT	7	Betz, U.A.K., et al., "Bypass of lethality with mosaic mice generated by Cre-loxP-mediated recombination," <i>Curr. Biol.</i> 6:1307-1316, Current Biology Ltd., London, England (October 1996).				

EXAMINER <i>Diana B</i>	DATE CONSIDERED <i>1/23/04</i>
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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DMD	AR	8	Bhandari, P. and Gowrishankar, J., "An Escherichia coli host strain useful for efficient overproduction of cloned gene products with NaCl as the inducer," <i>J. Bacteriol.</i> 179:4403-4406, American Society for Microbiology, Washington, D.C. (July 1997).
DMD	AS	8	Black, L.W., "In vitro packaging into phage T4 particles and specific recircularization of phage lambda DNAs," <i>Gene</i> 46:97-101, Elsevier/North-Holland, Netherlands (1986).
DMD	AT	8	Bloch, C.A., et al., "Purification of Escherichia coli Chromosomal Segments without Cloning," <i>Biochem. Biophys. Res. Comm.</i> 223:104-111, Academic Press, Inc., New York, NY (1996).

EXAMINER *Diana P.*DATE CONSIDERED *1/23/04*

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DMP	AR	9	Bochner, B. R., et al., "Positive Selection for Loss of Tetracycline Resistance," <i>J. Bacteriol.</i> 143:926-933, American Society for Microbiology, Washington, D.C. (1980).				
DMP	AS	9	Boyd, A. C., "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids," <i>Nucl. Acids Res.</i> 21(4):817-821, Oxford University Press, Oxford, England (1993).				
DMP	AT	9	Broach, J. R., et al., "Recombination within the Yeast Plasmid 2μ Circle is Site-Specific," <i>Cell</i> 29:227-234, Cell Press, Cambridge, MA (1982).				

EXAMINER	Diana P.	DATE CONSIDERED	1	23/04
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DJW	AR	10	Brunelli, J. P. and Pall, M. L., "A Series of Yeast/ <i>Escherichia coli</i> λ Expression Vectors Designed for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision," <i>Yeast</i> 9:1309-1318, John Wiley, Chichester, NY (1993).				
DJW	AS	10	Brunelli, J.P., and Pall, M.L., "Lambda/Plasmid Vector Construction by In Vivo cre/lox-Mediated Recombination," <i>BioTechniques</i> 16(6):1061-1064, Eaton Publishing Company, Natick, MA (June 1994).				
DJW	AT	10	Bubeck, P., et al., "Rapid cloning by homologous recombination <i>in vivo</i> ," <i>Nucl. Acids Res.</i> 21:3601-3602, Oxford University Press, Oxford, England (1993).				

EXAMINER	Diana P	DATE CONSIDERED	1/23/04
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DW</i>	AR	<u>11</u>	Buchholz, F., et al., "A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs," <i>Nucl. Acids Res.</i> 24(15):3118-3119, Oxford University Press, Oxford, England (1996).				
<i>DW</i>	AS	<u>11</u>	Buchholz, F., et al., "Different thermostabilities of FLP and Cre recombinases: implications for applied site-specific recombination," <i>Nucl. Acids Res.</i> 24(21):4256-4262, Oxford University Press, Oxford, England (1996).				
<i>DW</i>	AT	<u>11</u>	Bushman, W., et al., "Control of Directionality in Lambda Site Specific Recombination," <i>Science</i> 230:906-911, Association for the Advancement of Science, Washington D.C. (1985).				

EXAMINER	<i>Diana B</i>	DATE CONSIDERED	<i>1/23/04</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL							Yes No
AM							Yes No
AN							Yes No
AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DW	AR	12	Campbell, A. M., "Chromosomal Insertion Sites for Phages and Plasmids," J. Bacteriol. 174(23):7495-7499, American Society for Microbiology, Washington, D.C. (1992).				
DPB	AS	12	Chapin, S.J., et al., "Differential expression of alternatively spliced forms of MAP4: a repertoire of structurally different microtubule-binding domains," Biochem. 34:2289-2301, American Chemical Society, Washington D.C. (1995).				
DPB	AT	12	Chatterjee, P.K., and Coren, J.S., "Isolating large nested deletions in bacterial and P1 artificial chromosomes by <i>in vivo</i> P1 packaging of products of Cre-catalyzed recombination between the endogenous and a transposed loxP site," Nucl. Acids Res. 25:2205-2212, Oxford University Press, Oxford, England (1997).				
EXAMINER	Diana PB				DATE CONSIDERED		11/23/04

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	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>DPM</i>	AR	<u>13</u>	Cox, M.M., "The FLP protein of the yeast 2-μm plasmid: Expression of a eukaryotic genetic recombination system in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 80:4223-4227, National Academy of Sciences of the USA, Washington, D.C. (1983).
<i>DPM</i>	AS	<u>13</u>	Craig, N.L. and Nash, H.A., "The Mechanism of Phage λ Site-Specific Recombination: Site-Specific Breakage of DNA by Int Topoisomerase," <i>Cell</i> 35:795-803, Cell Press, Cambridge, MA (1983).
<i>DPM</i>	AT	<u>13</u>	Dale, E.C. and Ow, D.W., "Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase," <i>Gene</i> 91:79-85, Elsevier/North-Holland, Netherlands (1990).

EXAMINER *Diana P.* DATE CONSIDERED *1/23/04*

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DPL</i>	AR	<u>14</u>	Dale, E.C. and Ow, D.W., "Gene transfer with subsequent removal of the selection gene from the host genome," Proc. Natl. Acad. Sci. USA 88:10558-10562, National Academy of Sciences of the USA, Washington, D.C. (1991).
<i>DPL</i>	AS	<u>14</u>	Dang, D.T. and Perrimon, N., "Use of a Yeast Site-Specific Recombinase to Generate Embryonic Mosaics in <i>Drosophila</i> ," Develop. Genetics 13:367-375, Wiley-Liss, Inc., New York, NY (1992).
<i>DPL</i>	AT	<u>14</u>	Degryse, E., "In vivo intermolecular recombination in <i>Escherichia coli</i> : application to plasmid constructions," Gene 170:45-50, Elsevier/North-Holland, Netherlands (1996).

EXAMINER *Diana PL* DATE CONSIDERED *1/23/04*

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DMD	AR	<u>15</u>		Devine, S. E., and Boeke, J.D., "Efficient integration of artificial transposons into plasmid targets <i>in vitro</i> : a useful tool for DNA mapping, sequencing and genetic analysis," <i>Nucl. Acids Res.</i> 22(18):3765-3772, Oxford University Press, Oxford, England (September 1994).			
DMD	AS	<u>15</u>		Diederich, L., et al., "New Cloning Vectors for Integration into the $\lambda$ Attachment Site <i>attB</i> of the <i>Escherichia coli</i> Chromosome," <i>Plasmid</i> 28:14-24, Academic Press, New York, NY (1992)			
DMD	AT	<u>15</u>		Dymecki, S. M., "A modular set of <i>Flp</i> , <i>FRT</i> and <i>lacZ</i> fusion vectors for manipulating genes by site-specific recombination," <i>Gene</i> 171:197-201, Elsevier/North-Holland, Netherlands (June 1996).			

EXAMINER	<i>Deneen R.</i>	DATE CONSIDERED	<i>1/23/09</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

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		APPLICANT Hartley et al.	
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	AL						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DW</i>	AR	<u>16</u>	Elledge, S. J., et al., "YES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and <i>Escherichia coli</i> mutations," <i>Proc. Natl. Acad. Sci. USA</i> 88:1731-1735, National Academy of Sciences of the USA, Washington, D.C. (1991).
<i>DW</i>	AS	<u>16</u>	Feil, R., et al., "Regulation of Cre Recombinase Activity by Mutated Estrogen Receptor Ligand-Binding Domains," <i>Biochem. Biophys. Res. Comm.</i> 237:752-757, Academic Press, Inc., New York, NY (1997).
<i>DW</i>	AT	<u>16</u>	Ferguson, J., et al., "Construction and characterization of three yeast- <i>Escherichia coli</i> shuttle vectors designed for rapid subcloning of yeast genes on small DNA fragments," <i>Gene</i> 16:191-197, Elsevier/North-Holland, Netherlands (1981).

EXAMINER *Diana P.* DATE CONSIDERED *1/23/04*

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Diana</i>	AR	<u>17</u>	Fiering, S., et al., "An "in-out" strategy using gene targeting and FLP recombinase for the functional dissection of complex DNA regulatory elements: Analysis of the $\beta$ -globin locus control region," Proc. Natl. Acad. Sci. USA 90:8469-8473, National Academy of Sciences of the USA, Washington, D.C. (1993).
<i>Diana</i>	AS	<u>17</u>	Filutowicz, M., et al., "Purification of the <i>Escherichia coli</i> integration host factor (IHF) in one chromatographic step," Gene 147:149-150, Elsevier/North-Holland, Netherlands (September 1994).
<i>Diana</i>	AT	<u>17</u>	Francia, M.V., and Lobo, J.M.G., "Gene Integration in the <i>Escherichia coli</i> Chromosome Mediated by Tn21 Integrase (Int21)," J. Bacteriol. 178:894-898, American Society for Microbiology, Washington, D.C. (February 1996).

EXAMINER <i>Diana</i>	DATE CONSIDERED <i>1/23/04</i>
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	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>DPS</i>	AR	<u>18</u>	Fukushige, S. and Sauer, B., "Genomic targeting with a positive-selection lox integration vector allows highly reproducible gene expression in mammalian cells," Proc. Natl. Acad. Sci. USA 89:7905-7909, National Academy of Sciences of the USA, Washington, D.C. (1992).
<i>DPS</i>	AS	<u>18</u>	Geoffroy, F., et al., "A new phage display system to construct multicombinatorial libraries of very large antibody repertoires," Gene 151:109-113, Elsevier/North-Holland, Netherlands (December 1994).
<i>DPS</i>	AT	<u>18</u>	Glasgow, A.C., et al., "DNA-binding Properties of the Hin Recombinase," J. Biol. Chem. 264:10072-10082, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1989).

EXAMINER *Diana R.*DATE CONSIDERED *1/23/04*

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AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DW</i>	AR	<u>19</u>	Golic, K. G. and Lindquist, S., "The FLP Recombinase of Yeast Catalyzes Site-Specific Recombination in the Drosophila Genome," Cell 59:499-509, Cell Press, Cambridge, MA (1989).				
<i>DW</i>	AS	<u>19</u>	Gu, H., et al., "Deletion of a DNA Polymerase β Gene Segment in T Cells Using Cell Type-Specific Gene Targeting," Science 265:103-106, Association for the Advancement of Science, Washington D.C. (1994).				
<i>DW</i>	AT	<u>19</u>	Guo, F., et al., "Asymmetric DNA bending in the Cre-loxP site-specific recombination synapse," Proc. Natl. Acad. Sci. USA 96:7143-7148, National Academy of Sciences of the USA, Washington, D.C. (1999).				

EXAMINER	<i>Diana B.</i>	DATE CONSIDERED	<i>1/23/04</i>
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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Diana PB</i>	AR	<u>20</u>	Hardy, S., et al., "Construction of Adenovirus Vectors through Cre-lox Recombination," J. Virol. 71(3):1842-1849, American Society for Microbiology, Washington, D.C. (1997).				
<i>Diana PB</i>	AS	<u>20</u>	Hasan, N., and Szybalski, W., "Control of cloned gene expression by promoter inversion in vivo: construction of improved vectors with a multiple cloning site and the p <sub>tac</sub> promoter," Gene 56:145-151, Elsevier/North-Holland, Netherlands (1987).				
<i>Diana PB</i>	AT	<u>20</u>	Hasan, N., et al., "Escherichia coli genome targeting, I. Cre-lox-mediated in vitro generation of ori' plasmids and their in vivo chromosomal integration and retrieval," Gene 150:51-56, Elsevier/North-Holland, Netherlands (December 1994).				

EXAMINER	<i>Diana PB</i>	DATE CONSIDERED	<i>1/23/04</i>
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AO							Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DW</i>	AR	<u>21</u>	Hashimoto-Gotoh, T., et al., "Improved vector, pHSG664, for direct streptomycin-resistance selection: cDNA cloning with G:C-tailing procedure and subcloning of double-digested DNA fragments," <i>Gene</i> 41:125-128, Elsevier/North-Holland, Netherlands (1986).				
<i>DW</i>	AS	<u>21</u>	Hoekstra, M. F., et al., "Shuttle Mutagenesis: Bacterial Transposons for Genetic Manipulations in Yeast," <i>Meth. Enzymol.</i> 194:329-342, Academic Press Inc., New York, NY (1991).				
<i>DW</i>	AT	<u>21</u>	Hoess, R.H., et al., "P1 site-specific recombination: Nucleotide sequence of the recombining sites," <i>Proc. Natl. Acad. Sci. USA</i> 79:3398-3402, National Academy of Sciences of the USA, Washington, D.C. (1982).				

EXAMINER	<i>Diana B</i>	DATE CONSIDERED	<i>3/23/04</i>
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DW</i>	AR	<u>22</u>	Hoess, R.H., et al., "Mechanism of Strand Cleavage and Exchange in the Cre-lox Site-specific Recombination System," <i>J. Mol. Biol.</i> 181:351-362, Academic Press, Inc., New York, NY (1985).				
<i>DW</i>	AS	<u>22</u>	Hoess, R., et al., "Formation of small circular DNA molecules via an in vitro site-specific recombination system," <i>Gene</i> 40:325-329, Elsevier/North-Holland, Netherlands (1985).				
<i>DW</i>	AT	<u>22</u>	Hoess, R. H., et al., "The role of the loxP spacer region in P1 site-specific recombination," <i>Nucl. Acids Res.</i> 14(5):2287-2300, Oxford University Press, Oxford, England (1986).				

EXAMINER	<i>Diana P.</i>	DATE CONSIDERED	<i>1/23/01</i>
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DM</i>	AR	<u>23</u>		Hoess, R. H., and Abremski, K., "The Cre-lox Recombination System," in: Nucleic Acids and Molecular Biology, Vol. 4, ed. by Eckstein, F. and D. M. J. Lilley, Springer-Verlag, Berlin, pp 99-109 (1990).			
<i>DPL</i>	AS	<u>23</u>		Hoogenboom, H.R., et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," Nucl. Acids Res. 19:4133-4137, Oxford University Press, Oxford, England (1991).			
<i>DPL</i>	AT	<u>23</u>		Holt, C.L., and May, G.S., "A novel phage λ replacement Cre-lox vector that has automatic subcloning capabilities," Gene 133:95-97, Elsevier/North-Holland, Netherlands (1993).			

EXAMINER Diana P. DATE CONSIDERED 1/23/09

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<i>DJW</i>	AR	<u>24</u>	Jaffé, A., et al., "Effects of the ccd Function of the F Plasmid on Bacterial Growth," <i>J. Bacteriol.</i> 163:841-849, American Society for Microbiology, Washington, D.C. (1985).				
<i>DJP</i>	AS	<u>24</u>	Kanaar, R., et al., "Gin-Mediated Recombination of Catenated and Knotted DNA Substrates: Implications for the Mechanism of Interaction Between Cis-Acting Sites," <i>Cell</i> 58:147-159, Cell Press, Cambridge, MA (1989).				
<i>DJP</i>	AT	<u>24</u>	Katz, L., et al., "Site-specific Recombination in <i>Escherichia coli</i> between the att sites of plasmid pSE211 from <i>Saccharopolyspora erythraea</i> ," <i>Mol. Gen. Genet.</i> 227:155-159, Springer-Verlag, New York, NY (1991).				

EXAMINER <i>Debra P</i>	DATE CONSIDERED <i>1/23/04</i>
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		FILING DATE March 2, 2000	GROUP 1655

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DW</i>	AR	<u>25</u>	Kilby, N.J., et al., "Site-specific recombinases: tools for genome engineering," Trends Genet. 9:413-421, Elsevier Science Publishers Ltd., Cambridge, England (1993).				
<i>DW</i>	AS	<u>25</u>	Kim, S., et al., "Lambda Int Protein Bridges Between Higher Complexes at Two Distant Chromosomal Loci attL and attR," Science 256:198-263, Association for the Advancement of Science, Washington D.C. (1992).				
<i>DW</i>	AT	<u>25</u>	Kozak, M., "Comparison of Initiation of Protein Synthesis in Prokaryotes, Eucaryotes, and Organelles," Microbiol. Rev. 47:1-45, American Society For Microbiology, Washington, D.C. (1983).				

EXAMINER *Diana B*DATE CONSIDERED *1/23/04*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DW</i>	AR	<u>26</u>	Kozak, M., "An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs," <i>Nucl. Acids res.</i> 15:8125-8132, Oxford University Press, Oxford, England (1987).				
<i>DW</i>	AS	<u>26</u>	Kozak, M., "Structural features in eukaryotic mRNAs that modulate the initiation of translation," <i>J. Biol. Chem.</i> 266:19867-19870, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1991).				
<i>DW</i>	AT	<u>26</u>	Kühn, R., et al., "Inducible Gene Targeting in Mice," <i>Science</i> 269:1427-1429, Association for the Advancement of Science, Washington D.C. (September 1995).				

EXAMINER	<i>Diana D</i>	DATE CONSIDERED	<u>1/23/01</u>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>DW</i>	AR	<u>27</u>	Lafontaine, D., and Tollervey, D., "One-step PCR mediated strategy for the construction of conditionally expressed and epitope tagged yeast proteins," <i>Nucl. Acids Res.</i> 24:2469-2472, Oxford University Press, Oxford, England (1996).
<i>WD</i>	AS	<u>27</u>	Lakso, M., et al., "Targeted oncogene activation by site-specific recombination in transgenic mice," <i>Proc. Natl. Acad. Sci. USA</i> 89:6232-6236, National Academy of Sciences of the USA, Washington, D.C. (1992).
<i>DW</i>	AT	<u>27</u>	Lander, E.S., "The New Genomics: Global Views of Biology," <i>Science</i> 274:536-539, Association for the Advancement of Science, Washington D.C. (October 1996).

EXAMINER <i>Dave B</i>	DATE CONSIDERED <i>11/23/04</i>
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DJ	AR	28	Landy, A., "Dynamic, Structural, and Regulatory Aspects of λ Site-Specific Recombination," <i>Annu. Rev. Biochem.</i> 58:913-949, American Chemical Society, Washington D.C. (1989).				
DJ	AS	28	Landy, A., "Mechanistic and structural complexity in the site-specific recombination pathways of Int and FLP," <i>Curr. Op. Genet. Develop.</i> 3:699-707, Current Biology Ltd., London, England (1993).				
DJ	AT	28	Lebreton, B., et al., "Mutations That Improve the Binding of Yeast FLP Recombinase to Its Substrate," <i>Genetics</i> 118:393-400, Genetics Society of America, Baltimore, MD (1988).				

EXAMINER <i>Diana B</i>	DATE CONSIDERED <i>1/23/04</i>
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AO							Yes No
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DWJ	AR	<u>29</u>	Lee, E.C., et al., "Genetic Analysis of <i>Escherichia coli</i> Integration Host Factor Interactions with Its Bacteriophage λ H' Recognition Site," <i>J. Bacteriol.</i> 173:609-617, American Society for Microbiology, Washington, D.C. (1991).				
DWJ	AS	<u>29</u>	Leong, J.M., et al., "Generation of single base-pair deletions, insertions, and substitutions by a site-specific recombination system," <i>Proc. Natl. Acad. Sci. USA</i> 82:6990-6994, National Academy of Sciences of the USA, Washington, D.C. (1985).				
DWJ	AT	<u>29</u>	Liu, Q., et al., "The univector plasmid-fusion system, a method for rapid construction o recombinant DNA without restriction enzymes," <i>Curr. Biol.</i> 8:1300-1309, Current Biology Ltd., London, England (1998).				

EXAMINER	<i>Diana DWJ</i>	DATE CONSIDERED	<i>1/23/04</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DWJ</i>	AR	<u>30</u>	Lorbach, E. et al., "Site-specific Recombination in Human Cells Catalyzed by Phage λ Integrase Mutants," <i>J. Mol. Biol.</i> 296:1175-1181, Academic Press, Inc., New York, NY (March 2000).				
<i>DWJ</i>	AS	<u>30</u>	Luckow, V. A., et al., "Efficient Generation of Infectious Recombinant Baculoviruses by Site-Specific Transposon-Mediated Insertion of Foreign Genes into a Baculovirus Genome Propagated in <i>Escherichia coli</i> ," <i>J. Virol.</i> 67(8):4566-4579, American Society for Microbiology, Washington, D.C. (1993).				
<i>DWJ</i>	AT	<u>30</u>	Maeser, S., and Kahmann, R., "The Gin recombinase of phage Mu can catalyze site-specific recombination in plant protoplasts," <i>Mol. Gen. Genet.</i> 230:170-176, Springer-Verlag, New York, NY (1991).				

EXAMINER <i>Dana B</i>	DATE CONSIDERED <u>1/23/04</u>
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DWY</i>	AR	<u>31</u>	Matsuzaki, H., et al., "Chromosome Engineering in <i>Saccharomyces cerevisiae</i> by Using a Site-Specific Recombination System of a Yeast Plasmid," <i>J. Bacteriol.</i> 172:610-618, American Society for Microbiology, Washington, D.C. (1990).				
<i>DWY</i>	AS	<u>31</u>	Mahillon, J., et al., "IS231 and other <i>Bacillus thuringiensis</i> transposable elements: a review," <i>Genetica</i> 93:13-26, Dordrecht Kluwer Academic Publishers (November 1994).				
<i>DWY</i>	AT	<u>31</u>	McCarthy, J.E. and Brimacombe, R., "Prokaryotic translation: the interactive pathway leading to initiation," <i>Trends Genet.</i> 10:402-407, Elsevier Science Publishers Ltd., Cambridge, England (November 1994).				

EXAMINER <i>Diana P.</i>	DATE CONSIDERED <i>1/23/04</i>
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AL							Yes No
AM							Yes No
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AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)								
<i>Dina B</i>	AR	<u>32</u>	Medberry, S.L., et al., "Intra-chromosomal rearrangements generated by Cre-lox site-specific recombination," <i>Nucl. Acids Res.</i> 23:485-490, Oxford University Press, Oxford, England (1995).					
<i>Dina B</i>	AS	<u>32</u>	Miki, T. et al., "Control of Segregation of Chromosomal DNA by Sex Factor F in <i>Escherichia coli</i> . Mutants of DNA Gyrase Subunit A Suppress letD (ccdB) Product Growth Inhibition," <i>J. Mol. Biol.</i> 225:39-52, Academic Press, Inc., New York, NY (1992).					
<i>Dina B</i>	AT	<u>32</u>	Mizuuchi, K., and Mizuuchi, K., "Integrative Recombination of Bacteriophage λ: In Vitro Study of the Intermolecular Reaction," <i>Cold Spring Harb. Symp. Quant. Biol.</i> 43:1111-1114, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1979).					

EXAMINER <i>Dina B</i>	DATE CONSIDERED <i>11/23/04</i>
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DRB</i>	AR	<u>33</u>	Mizuuchi, M. and Mizuuchi, K., "The extent of DNA sequence required for a functional bacterial attachment site of phage lambda," <i>Nucl. Acids Res.</i> 13:1193-1208, Oxford University Press, Oxford, England (1985).				
<i>DRB</i>	AS	<u>33</u>	Mozo, T. and Hooykaas, P. J. J., "Design of a novel system for the construction of vectors for Agrobacterium-mediated plant transformation," <i>Mol. Gen. Genet.</i> 236:1-7, Springer-Verlag, New York, NY (1992).				
<i>DRB</i>	AT	<u>33</u>	Mullins, L.J., et al., "Efficient Cre-lox linearisation of BACs: applications to physical mapping and generation of transgenic animals," <i>Nucl. Acids Res.</i> 25(12):2539-2540, Oxford University Press, Oxford, England (1997).				

EXAMINER	<i>Diana PDR</i>	DATE CONSIDERED	<i>1/23/04</i>
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Dm</i>	AR	<u>34</u>	Nagaraja, R. and Weisberg, R. A., "Specificity Determinants in the Attachment Sites of Bacteriophages HK022 and λ," <i>J. Bacteriol.</i> 172:6540-6550, American Society for Microbiology, Washington, D.C. (1990).
<i>Dm</i>	AS	<u>34</u>	Nash, H.A., "Integrative Recombination of Bacteriophage Lambda DNA In Vitro," <i>Proc. Natl. Acad. Sci. USA</i> 72:1072-1076, National Academy of Sciences of the USA, Washington, D.C. (1975).
<i>Dm</i>	AT	<u>34</u>	Nash, H.A., and Robertson, C.A., "Purification and properties of the <i>Escherichia coli</i> protein factor required for lambda integrative recombination," <i>J. Biol. Chem.</i> 256:9246-9253, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1981).
EXAMINER	<i>Diana B</i>		DATE CONSIDERED <u>1/23/07</u>

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AN							Yes No
AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>MJ</i>	AR	<u>35</u>	Nash, H. A., "Purification and Properties of the Bacteriophage Lambda Int Protein," <i>Meth. Enzymol.</i> 100:210-216, Academic Press Inc., New York, NY (1983).				
<i>DJ</i>	AS	<u>35</u>	Nash, H. A., et al., "Role of homology in site-specific recombination of bacteriophage λ: Evidence against joining of cohesive ends," <i>Proc. Natl. Acad. Sci. USA</i> 84:4049-4053, National Academy of Sciences of the USA, Washington, D.C. (1987).				
<i>DJ</i>	AT	<u>35</u>	Nash, H. and C.A. Robertson, "Heteroduplex substrates for bacteriophage lambda site-specific recombination: cleavage and strand transfer products," <i>EMBO J.</i> 8:3523-3533, IRL Press Limited, Oxford, England (1989).				

EXAMINER <i>Diana R</i>	DATE CONSIDERED <i>1/23/04</i>
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	AO						Yes No
	AP						Yes No

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<i>DWY</i>	AR	<u>36</u>	Nash, H.A., "Bending and supercoiling of DNA at the attachment site of bacteriophage λ," <i>Trends Biochem. Sci.</i> 15:222-227, International Union of Biochemistry and Elsevier Trends Journal, Cambridge, England (1990).				
<i>DWY</i>	AS	<u>36</u>	Numrych, T. E., et al., "A comparison of the effects of single-base and triple-base changes in the integrase arm-type binding sites on the site-specific recombination of bacteriophage lambda," <i>Nucl. Acids Res.</i> 18:3953-3959, Oxford University Press, Oxford, England (1990).				
<i>DWY</i>	AT	<u>36</u>	Numrych, T.E., et al., "Characterization of the bacteriophage lambda excisionase (Xis) protein: the C-terminus is required for Xis-integrase cooperativity but not for DNA binding," <i>EMBO J.</i> 11(10):3797-3806, IRL Press Limited, Oxford, England (1992).				

EXAMINER	<i>Dwight B.</i>	DATE CONSIDERED	<u>1/23/04</u>
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<i>Dm</i>	AR	<u>37</u>	Nunes-Duby, S.E., et al., "Half-att Site Substrates Reveal the Homology Independence and Minimal Protein Requirements for Productive Synapsis in λ Excisive Recombination," Cell 59:197-206, Cell Press, Cambridge, MA (1989).
<i>Dm</i>	AS	<u>37</u>	Nunes-Duby, et al., "Similarities and differences among 105 members of the Int family of site-specific recombinases," Nucl. Acids Res. 26:391-406, Oxford University Press, Oxford, England (1998).
<i>Dm</i>	AT	<u>37</u>	Oberto, J., et al., "A segment of the phage HK022 chromosome is a mosaic of other lambdoid chromosomes," Nucl. Acids Res. 22(3):354-356, Oxford University Press, Oxford, England (February 1994).

EXAMINER	<i>Diane B</i>	DATE CONSIDERED	<u>1/23/04</u>
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DWY</i>	AR	<u>38</u>	Oliner, J.D., et al., "In vivo cloning of PCR products in <i>E. coli</i> ," <i>Nucl. Acids Res.</i> 21:5192-5197, Oxford University Press, Oxford, England (1993).				
<i>DWY</i>	AS	<u>38</u>	Orban, P. C., et al., "Tissue- and site-specific DNA recombination in transgenic mice," <i>Proc. Natl. Acad. Sci. USA</i> 89:6861-6865, National Academy of Sciences of the USA, Washington, D.C. (1992).				
<i>DWY</i>	AT	<u>38</u>	Osborne, B.I., et al., "A system for insertional mutagenesis and chromosomal rearrangement using the <i>Ds</i> transposon and <i>Cre-lox</i> ," <i>Plant J.</i> 7:687-701, Oxford Bios Scientific Publishers And Blackwell Scientific Publications In Association With The Society For Experimental Biology, Oxford, England (1995).				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>Diana Pof</i>	AR	<u>39</u>	Padgett, K. A. and Sorge, J. A., "Creating seamless junctions independent of restriction sites in PCR cloning," <i>Gene</i> 168:31-35, Elsevier/North-Holland, Netherlands (February 1996).
<i>Diana Pof</i>	AS	<u>39</u>	Palazzolo, M. J., et al., "Phage lambda cDNA cloning vectors for subtractive hybridization, fusion-protein synthesis and Cre-loxP automatic plasmid subcloning," <i>Gene</i> 88:25-36, Elsevier/North-Holland, Netherlands (1990).
<i>Diana Pof</i>	AT	<u>39</u>	Pan, G., et al., "Ligation of Synthetic Activated DNA Substrates by Site-specific Recombinases and Topoisomerase I," <i>J. Biol. Chem.</i> 268(5):3683-3689, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1993).

EXAMINER	<i>Diana Pof</i>	DATE CONSIDERED	<u>1/23/04</u>
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DW</i>	AR	40	Parks, R.J., and Graham, F.L., "A Helper-Dependent System for Adenovirus Vector Production Helps Define a Lower Limit for Efficient DNA Packaging," <i>J. Virol.</i> 71(4):3293-3298, American Society for Microbiology, Washington, D.C. (1997).				
<i>DW</i>	AS	40	Peakman, T. C., et al., "Highly efficient generation of recombinant baculoviruses by enzymatically mediated site-specific in vitro recombination," <i>Nucl. Acids Res.</i> 20:495-500, Oxford University Press, Oxford, England (1992).				
<i>DW</i>	AT	40	Peredelchuk, M.Y., and Bennett, G.N., "A method for construction of <i>E. coli</i> strains with multiple DNA insertions in the chromosome," <i>Gene</i> 187:231-238, Elsevier/North-Holland, Netherlands (1997).				

EXAMINER	<i>Dana B</i>	DATE CONSIDERED	<i>7/23/09</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER				Pichel, J. G., et al., "Timing of SV40 oncogene activation by site-specific recombination determines subsequent tumor progression during murine lens development," Gene 8:3333-3342, Elsevier/North-Holland, Netherlands (1993).  Pierce, J. C., et al., "A positive selection vector for cloning high molecular weight DNA by the bacteriophage P1 system: Improved cloning efficacy," Proc. Natl. Acad. Sci. USA 89:2056-2060, National Academy of Sciences of the USA, Washington, D.C. (1992).  Podhajska, A. J., et al., "Control of cloned gene expression by promoter inversion in vivo: construction of the heat-pulse-activated att-nutL-p-att-N module," Gene 40:163-168, Elsevier/North-Holland, Netherlands (1985).			
	AR	<u>41</u>					
	AS	<u>41</u>					
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EXAMINER	<u>Diana B.</u>				DATE CONSIDERED	1/23/04	

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AL							Yes No
AM							Yes No
AN							Yes No
AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DMD	AR	42	Pósfai, G., et al., "In vivo excision and amplification of large segments of the Escherichia coli genome," Nucl. Acids Res. 22(12):2392-2398, Oxford University Press, Oxford, England (June 1994).				
DMD	AS	42	Prasad, P. V., et al., "Substrate Recognition by the 2μm Circle Site-Specific Recombinase: Effect of Mutations within the Symmetry Elements of the Minimal Substrate," Mol. Cell. Biol. 6:4329-4334, American Society for Microbiology, Washington, D.C. (1986).				
DMD	AT	42	Qian, X., et al., "Reactions between Half- and Full-FLP Recombination Target Sites: A Model System for Analyzing Early Steps in FLP Protein-Mediated Site-Specific Recombination," J. Biol. Chem. 267(11):7794-7805, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1992).				

EXAMINER	Diane P	DATE CONSIDERED	11/23/04
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DWY</i>	AR	<u>43</u>	Reed, R.R., "Transposon-Mediated Site-Specific Recombination: A Defined in Vitro System," Cell 25:713-719, Cell Press, Cambridge, MA (1981).				
<i>DWY</i>	AS	<u>43</u>	Reed, R.R. and N.D. Grindley, "Transposon-Mediated Site-Specific Recombination in Vitro: DNA Cleavage and Protein-DNA Linkage at the Recombination Site," Cell 25:721-728, Cell Press, Cambridge, MA (1981).				
<i>DWY</i>	AT	<u>43</u>	Richet, E., et al., "The Interaction of Recombination Proteins with Supercoiled DNA: Defining the Role of Supercoiling in Lambda Integrative Recombination," Cell 46:1011-1021, Cell Press, Cambridge, MA (1986).				

EXAMINER	<i>Diane B</i>	DATE CONSIDERED	<i>1/23/04</i>
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	AL						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Dm</i>	AR	<u>44</u>		Richet, E., et al., "Synapsis of Attachment Sites during Lambda Integrative Recombination Involves Capture of a Naked DNA by a Protein-DNA Complex," Cell 52:9-17, Cell Press, Cambridge, MA (1988).			
<i>Dm</i>	AS	<u>44</u>		Sadowski, P., "Site-Specific Recombinases: Changing Partners and Doing the Twist," J. Bacteriol. 165(2):341-347, American Society for Microbiology, Washington, D.C. (1986).			
<i>Dm</i>	AT	<u>44</u>		Sadowski, P.D., "The Flp recombinase of the 2-microns plasmid of Saccharomyces cerevisiae," Prog. Nucl. Acid Res. Mol. Biol. 51:53-91, Academic Press, New York, NY (1995).			

EXAMINER	<i>Diana B.</i>	DATE CONSIDERED	<i>1/23/04</i>
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

DJ	AR	45	Sauer, B., et al., "Site-specific insertion of DNA into a pseudorabies virus vector," Proc. Natl. Acad. Sci. USA 84:9108-9112, National Academy of Sciences of the USA, Washington, D.C. (1987).
DJ	AS	45	Sauer, B., "Functional Expression of the cre-lox Site-Specific Recombination System in the Yeast <i>Saccharomyces cerevisiae</i> ," Mol. Cell. Biol. 7:2087-2096, American Society for Microbiology, Washington, D.C. (1987).
DJ	AT	45	Sauer, B. and Henderson, N., "The cyclization of linear DNA in <i>Escherichia coli</i> by site-specific recombination," Gene 70:331-341, Elsevier/North-Holland, Netherlands (1988).

EXAMINER	Diana Pei	DATE CONSIDERED	1/23/04
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		FILING DATE March 2, 2000	GROUP 1655

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	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Dm</i>	AR	<u>46</u>	Sauer, B. and Henderson, N., "Cre-stimulated recombination at loxP-containing DNA sequences placed into the mammalian genome," <i>Nucl. Acids Res.</i> 17:147-161, Oxford University Press, Oxford, England (1989).				
<i>Dm</i>	AS	<u>46</u>	Sauer, B., "Manipulation of Transgenes by Site-Specific Recombination: Use of Cre Recombinase," <i>Meth. Enzymol.</i> 225:890-900, Academic Press Inc., New York, NY (1993).				
<i>Dm</i>	AT	<u>46</u>	Sauer, B., "Site-specific recombination: developments and applications," <i>Curr. Op. Biotechnol.</i> 5:521-527, Current Biology, Ltd., London, England (October 1994).				

EXAMINER	<i>Diana D.</i>	DATE CONSIDERED	<i>1/23/04</i>
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		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Dm</i>	AR	<u>47</u>	Sauer, B., "Multiplex Cre/lox recombination permits selective site-specific DNA targeting to both a natural and an engineered site in the yeast genome," <i>Nucl. Acids Res.</i> 24(23):4608-4613, Oxford University Press, Oxford, England (1996).				
<i>Dm</i>	AS	<u>47</u>	Sauer, B., "Inducible Gene Targeting in Mice Using the Cre/lox System," <i>Methods</i> 14:381-392, Academic Press, Inc., New York, NY (April 1998).				
<i>Dm</i>	AT	<u>47</u>	Schindelhauer, D., and Cooke, H.J., "Efficient combination of large DNA <i>in vitro</i> : in gel site specific recombination (IGSSR) of PAC fragments containing a satellite DNA and the human HPRT gene locus," <i>Nucl. Acids Res.</i> 25(11):2241-2243, Oxford University Press, Oxford, England (1997).				

EXAMINER <i>Diana B.</i>	DATE CONSIDERED <i>4/23/04</i>
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
<i>DW</i>	AR	<u>48</u>	Schlake, T., and Bode, J., "Use of Mutated FLP Recognition Target (FRT) Sites for the Exchange of Expression Cassettes at Defined Chromosomal Loci," <i>Biochem.</i> 33:12746-12751, American Chemical Society, Washington D.C. (November 1994).				
<i>DW</i>	AS	<u>48</u>	Segall, A. M. and Nash, H. A., "Synaptic intermediates in bacteriophage lambda site-specific recombination: integrase can align pairs of attachment sites," <i>EMBO J.</i> 12:4567-4576, IRL Press Limited, Oxford, England (1993).				
<i>DW</i>	AT	<u>48</u>	Segall, A.M., and Nash, H.A., "Architectural flexibility in lambda site-specific recombination: three alternate conformations channel the attL site into three distinct pathways," <i>Genes to Cells</i> 1:453-463, Blackwell Science Ltd., Oxford, England (1996).				

EXAMINER	<i>Diana Po</i>	DATE CONSIDERED	<i>1/23/04</i>
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	AN						Yes No
	AO						Yes No
	AP						Yes No

<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
<i>DMM</i>	AR	<u>49</u>		Senecoff, J.F., et al., "DNA Recognition by the FLP Recombinase of the Yeast 2 $\mu$ Plasmid - A Mutational Analysis of the FLP Binding Site," <i>J. Mol. Biol.</i> 201:405-421, Academic Press, Inc., New York, NY (1988).			
<i>DMM</i>	AS	<u>49</u>		Sheffield, P. et al., "Overcoming Expression and Purification Problems of RhoGDI Using a Family of "Parallel" Expression Vectors," <i>Protein Expr. Purific.</i> 15:34-39, Academic Press, New York, NY (1999).			
<i>DMM</i>	AT	<u>49</u>		Shuman, S., "Recombination mediated by vaccinia virus DNA topoisomerase I in <i>Escherichia coli</i> is sequence specific," <i>Proc. Natl. Acad. Sci. USA</i> 88:10104-10108, National Academy of Sciences of the USA, Washington, D.C. (1991).			

EXAMINER	<i>Diana P.</i>	DATE CONSIDERED	<i>1/23/04</i>
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>MM</i>	AR	<u>50</u>	Sizemore, C., et al., "Quantitative analysis of Tn10 Tet repressor binding to a complete set of tet operator mutants," <i>Nucl. Acids Res.</i> 18(10):2875-2880, Oxford University Press, Oxford, England (1990).				
<i>MM</i>	AS	<u>50</u>	Smith, A. J. H., et al., "A site-directed chromosomal translocation induced in embryonic stem cells by Cre-loxP recombination," <i>Nat. Gen.</i> 9:376-385, Nature Publishing Co., New York, NY (April 1995).				
<i>MM</i>	AT	<u>50</u>	Snaith, M.R., et al., "Multiple cloning sites carrying loxP and FRT recognition sites for the Cre and Flp site-specific recombinases," <i>Gene</i> 166:173-174, Elsevier/North-Holland, Netherlands (December 1995).				

EXAMINER	<i>Diana M</i>	DATE CONSIDERED	1	23	04
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.					

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>Dm</i>	AR	<u>51</u>	Spengler, S.J., et al., "The Stereostructure of Knots and Catenanes Produced by Phage $\lambda$ Integrative Recombination: Implications for Mechanism and DNA Structure," Cell 42:325-334, Cell Press, Cambridge, MA (1985).
<i>Dm</i>	AS	<u>51</u>	Sternberg, N., et al., "Site-specific Recombination and Its Role in the Life Cycle of Bacteriophage P1," Cold Spring Harbor Symp. Quant. Biol. 45:297-309, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1981).
<i>Dm</i>	AT	<u>51</u>	Sternberg, N., et al., "Bacteriophage P1 cre Gene and its Regulatory Region," J. Mol. Biol. 187:197-212, Academic Press, Inc., New York, NY (1986).

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FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655

U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL							Yes No
AM							Yes No
AN							Yes No
AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Dm</i>	AR	<u>52</u>	Sternberg, N., "Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs," Proc. Natl. Acad. Sci. USA 87:103-107, National Academy of Sciences of the USA, Washington, D.C. (1990).				
<i>Dm</i>	AS	<u>52</u>	Storck, T., et al., "Rapid construction in yeast of complex targeting vectors for gene manipulation in the mouse," Nucl. Acids Res. 24:4594-4596, Oxford University Press, Oxford, England (1996).				
<i>Dm</i>	AT	<u>52</u>	Strathmann, M., et al., "Transposon-facilitated DNA sequencing," Proc. Natl. Acad. Sci. USA 88:1247-1250, National Academy of Sciences of the USA, Washington, D.C. (1991).				

EXAMINER	<i>Diana P.</i>	DATE CONSIDERED	<u>1</u>	<u>23</u>	<u>04</u>
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	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>Dm</i>	AR	<u>53</u>	Thompson, J. F., et al., "Mutations in an Integration Host Factor-Binding Site: Effect on Lambda Site-Specific Recombination and Regulatory Implications," <i>J. Bacteriol.</i> 168:1343-1351, American Society for Microbiology, Washington, D.C. (1986).
<i>Dm</i>	AS	<u>53</u>	Thompson, J.F., et al., "Helical-repeat dependence of integrative recombination of bacteriophage λ: Role of the P1 and H1 protein binding sites," <i>Proc. Natl. Acad. Sci. USA</i> 85:6323-6327, National Academy of Sciences of the USA, Washington, D.C. (1988).
<i>Dm</i>	AT	<u>53</u>	Thorpe, H.M., and Smith, M.C.M., "In vitro site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family," <i>Proc. Natl. Acad. Sci. USA</i> 95:5505-5510, National Academy of Sciences of the USA, Washington, D.C. (May 1998).

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*Diana R*

DATE CONSIDERED

1/23/04

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DW</i>	AR	<u>54</u>	Tsurushita, N., et al., "Phage display vectors for in vivo recombination of immunoglobulin heavy and light chain genes to make large combinatorial libraries," Gene 172:59-63, Elsevier/North-Holland, Netherlands (1996).				
<i>MW</i>	AS	<u>54</u>	Vanin, E.F., et al., "Development of High-Titer Retroviral Producer Cell Lines by Using Cre-Mediated Recombination," J. Virol. 71:7820-7826, American Society for Microbiology, Washington, D.C. (1997).				
<i>DW</i>	AT	<u>54</u>	Waterhouse, P., et al., "Combinatorial infection and in vivo recombination: a strategy for making large phage antibody repertoires," Nucl. Acids Res. 21(9):2265-2266, Oxford University Press, Oxford, England (1993).				

EXAMINER	<i>Diana B</i>	DATE CONSIDERED	<i>1/23/04</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Dm</i>	AR	<u>55</u>		Wang, G., et al., "pDUAL: A transposon-based cosmid cloning vector for generating nested deletions and DNA sequencing templates <i>in vivo</i> ," Proc. Natl. Acad. Sci. USA 90:7874-7878, National Academy of Sciences of the USA, Washington, D.C. (1993).			
<i>Dm</i>	AS	<u>55</u>		Wasserman, S.A., et al., "The helical repeat of double-stranded DNA varies as a function of catenation and supercoiling," Nature 334:448-450, Macmillan Publishers Ltd., London, England (1988).			
<i>Dm</i>	AT	<u>55</u>		Wierzbicki, A., et al., "A Mutational Analysis of the Bacteriophage PI Recombinase Cre," J. Mol. Biol. 195:785-794, Academic Press, Inc., New York, NY (1987).			

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>DW</i>	AR	<u>56</u>	Weisberg, R. A., and Landy, A., "Site-specific Recombination in Phage Lambda," in: "Lambda II," Hendrix, R. W. et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y., pp. 211-250 (1983).
<i>DW</i>	AS	<u>56</u>	Wild, J., et al., "A broad-host-range in vivo pop-out and amplification system for generating large quantities of 50- to 100-kb genomic fragments for direct DNA sequencing," Gene 179:181-188, Elsevier/North-Holland, Netherlands (1996).
<i>DW</i>	AT	<u>56</u>	Wild, J., et al., "Targeting and retrofitting pre-existing libraries of transposon insertions with FRT and oriV elements for in-vivo generation of large quantities of any genomic fragment," Gene 223:55-66, Elsevier/North-Holland, Netherlands (1998).

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	AP						Yes No

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<i>DW</i>	AR	<u>57</u>	Winoto, A., et al., "Directional Control of Site-specific Recombination by Bacteriophage $\lambda$ ," <i>J. Mol. Biol.</i> 192:677-680, Academic Press, Inc., New York, NY (1986).
<i>DW</i>	AS	<u>57</u>	Yang, W., and Mizuuchi, K., "Site-specific recombination in plane view," <i>Structure</i> 5:1401-1406, Current Biology, London, England (1997).
<i>DW</i>	AT	<u>57</u>	Yanisch-Perron, C., et al., "Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors," <i>Gene</i> 33:103-119, Elsevier/North-Holland, Netherlands (1985).

EXAMINER *Diana B.* DATE CONSIDERED 11/23/04

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	AP						Yes No

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<i>DmB</i>	AR	<u>58</u>	Yoon, Y.G., et al., "Cre/loxP-mediated in vivo excision of large segments from yeast genome and their amplification based on the 2 μm plasmid-derived system," Gene 223:67-76, Elsevier/North-Holland, Netherlands (1998).
<i>DmB</i>	AS	<u>58</u>	York, D., et al., "Simple and efficient generation in vitro of nested deletions and inversions: Tn5 intramolecular transposition," Nucl. Acids Res. 26:1927-1933, Oxford University Press, Oxford, England (1998).
<i>DmB</i>	AT	<u>58</u>	Zhang, Y. et al., "A new logic for DNA engineering using recombination in Escherichia coli," Nat. Genet. 20:123-128, Nature Publishing Co., New York, NY (1998).

EXAMINER <i>DmB</i>	DATE CONSIDERED <i>1/23/04</i>
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AM							Yes No
AN							Yes No
AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DHD</i>	AR	<u>59</u>	Zhu, et al., "Homology requirements for ligation and strand exchange by the FLP recombinase," J. Biol. Chem. 270:11646-11653, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1995).				
<i>MMD</i>	AS	<u>59</u>	International Search Report for International Application No. PCT/US98/22589, mailed October 26, 1998.				
<i>MJD</i>	AT	<u>59</u>	Gage, P.J., et al., "A Cell-Free Recombination System for Site-Specific Integration of Multigenic Shuttle Plasmids into Herpes Simplex Type 1 Genome," J. Virol. 66:5509-5515, American Society for Microbiology, Washington, D.C. (1992).				

EXAMINER	<i>Diana H</i>	DATE CONSIDERED	<u>1/23/04</u>
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Dm</i>	AR	<u>60</u>	Götz, F., et al., "Escherichia coli 30S mutants lacking protein S20 are defective in translation initiation," <i>Biochim. Biophys. Acta</i> 1050:93-97, Elsevier Publishing Co., Amsterdam, Netherlands (1990).				
<i>Dm</i>	AS	<u>60</u>	Green, R. and Noller, H.F., "Ribosomes and Translation," <i>Ann. Rev. Biochem.</i> 66:679-716, Annual Reviews, Inc., Palo Alto, CA (1997).				
<i>Dm</i>	AT	<u>60</u>	Jeong, J.-H., et al., "Cloning and nucleotide sequencing of the genes, <i>rplU</i> and <i>rpmA</i> , for ribosomal proteins L21 and L27 of <i>Escherichia coli</i> ," <i>J. DNA sequencing and Mapping</i> 4:59-67, Harwood Academic Publishers GmbH, Switzerland (1993).				

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DMD	AR	61	Kitts, P.A. and Nash, H.A., "Bacteriophage Lambda Site-Specific Recombination Proceeds with a Defined Order of Strand Exchanges," <i>J. Mol. Biol.</i> 204:95-107, Academic Press, Inc., New York, NY (1988).				
VMD	AS	61	Lake, J.A., "Evolving Ribosome Structure: Domains in Archaeabacteria, Eubacteria, Eocytes and Eukaryotes," <i>Ann. Rev. Biochem.</i> 54:507-530, Annual Reviews, Inc., Palo Alto, CA (1985).				
DMS	AT	61	Mackie, G.A., "Nucleotide Sequence of the Gene for Ribosomal Protein S20 and Its Flanking Regions," <i>J. Biol. Chem.</i> 256:8177-8182, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1981).				

EXAMINER	<i>Diana M. S.</i>	DATE CONSIDERED	1	23	04
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>DW</i>	AR	<u>62</u>		Nomura, M., et al., "Regulation of the Synthesis of Ribosomes and Ribosomal Components," Ann. Rev. Biochem. 53:75-117, Annual Reviews, Inc., Palo Alto, CA (1984).			
<i>MM</i>	AS	<u>62</u>		Wittman, H.G., "Components of Bacterial Ribosomes," Ann. Rev. Biochem. 51:155-183, Annual Reviews, Inc., Palo Alto, CA (1982).			
<i>DW</i>	AT	<u>62</u>		Wittmann, H.G., "Architecture of Prokaryotic Ribosomes," Ann. Rev. Biochem. 52:35-65, Annual Reviews, Inc., Palo Alto, CA (1983).			

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	AP						Yes No

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<i>Dm</i>	AR	<u>63</u>	Jayaram, M., "The Int family of site-specific recombinases: Some thoughts on a general reaction mechanism," <i>J. Genet.</i> 67:29-36, Indian Academy Of Sciences Bangalore, Bangalore, India (1988).				
<i>Dm</i>	AS	<u>63</u>	Simpson, J.C., et al., "Systematic subcellular localization of novel proteins identified by large-scale cDNA sequencing," <i>EMBO Reports</i> 1:287-292, IRL Press Limited, Oxford, England (September 2000).				
<i>Dm</i>	AT	<u>63</u>	Pending U.S. Non-Provisional Patent Application No. 09/177,387, filed October 23, 1998.				

EXAMINER	<i>Diana R</i>	DATE CONSIDERED	<i>1/23/04</i>
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AP							Yes No

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<i>MM</i>	AR	<u>64</u>	Pending U.S. Non-Provisional Patent Application No. 09/233,492, filed January 20, 1999.
<i>MM</i>	AS	<u>64</u>	Pending U.S. Non-Provisional Patent Application No. 09/296,280, filed April 22, 1999.
<i>MM</i>	AT	<u>64</u>	Pending U.S. Non-Provisional Patent Application No. 09/296,281, filed April 22, 1999.

EXAMINER	<i>Diana B</i>	DATE CONSIDERED	<u>1/23/04</u>
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<i>MJ</i>	AR	<u>65</u>	Pending U.S. Non-Provisional Patent Application No. 09/432,085, filed November 02, 1999.
<i>MJ</i>	AS	<u>65</u>	Pending U.S. Non-Provisional Patent Application No. 09/438,358, filed November 12, 1999.
<i>MJ</i>	AT	<u>65</u>	Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000.

EXAMINER	<i>Diana R</i>	DATE CONSIDERED	<i>1/23/04</i>
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FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
		APPLICANT Hartley et al.	
		FILING DATE March 2, 2000	GROUP 1655

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA							
AB							
AC							
AD							
AE							
AF							
AG							
AH							
AI							
AJ							
AK							

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>WWD</i>	AR	<u>66</u>	Pending U.S. Non-Provisional Patent Application No. 09/518,188, filed March 2, 2000.				
<i>WWD</i>	AS	<u>66</u>	Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000.				
<i>WWD</i>	AT	<u>66</u>	Pending U.S. Non-Provisional Patent Application No. 09/695,065, filed October 25, 2000.				

EXAMINER	<i>Diana B</i>	DATE CONSIDERED	<i>1/23/04</i>
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## U.S. PATENT DOCUMENTS

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	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DW</i>	AR	<u>67</u>	Pending U.S. Non-Provisional Patent Application No. 09/732,914, filed December 11, 2000.
	AS		
	AT		

EXAMINER *Diana B.*DATE CONSIDERED *1/23/04*

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